HANDBOOK
Core Drill Stand

DC200

Read carefully before use

Keep for later reference

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1 Introduction

This publication is a handbook for the core drill stand “Profi-Midi”.

The handbook contains the most important information about setting up, operating and maintaining the stand. In addition, the technical specifications are summarised.

In the chapters, which follow, the names of the parts are followed by the drawing number, which refers to the parts list on page 7.

If you have questions about this stand, then your are welcome at any time to contact:

Diacom BV: telephone 0031- (0)23 – 5615275
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2 Description of the equipment

In this chapter, the drill stand and its use is briefly described.

2.1 The function of the core drill stand

The moveable Profi-Midi core drill stand originates from the “DC” series of core drill stands for drilling with diamond core drills. These drills have been developed for drilling into concrete, asphalt and stony materials. The stand has the function of positioning the drill and guiding the drill during drilling. The advised maximum diameter to be drilled with the Profi-Midi is 200 mm (depending on the core drill equipment to be used).

The core drill stand may not be used for any other purpose than the above-mentioned application.

2.2 Description of the parts

Drill motor
The drill motor is fitted onto the sliding-housing by the four supplied bolts and can be easily replaced. For the advance of the drill motor, the drive is effected manually via the lever.
The core drill must first be fixed to the motor chair. The motor chair must thereafter be thoroughly tightened by means of the nut on the front side of the motor chair.
The sliding-piece can be locked onto the pillar using the locking pin (PL30071).
Ensure that the locking pin on the sliding-housing is always engaged if one does not have to move the sliding-housing along the pillar. It is also very important to adjust the screw (PL30054), so that the pump pin (PL10013) prevents the sliding-piece to move on it’s own. This prevents undesired sinking of the drill. In addition, this must be engaged if one wants to move the lever to another pinion tooth, (delay) or one wants to adjust the pillar at an angle.

Sliding-housing / toothed rack
By means of the lever, the sliding-housing can be moved along the pillar. A toothed rack is fitted to the pillar for this purpose. For left-handed people, the lever can also be used on the other side of the through-spindle.
The sliding-housing can be tightened onto the pillar using the brake knob (40).
Ensure that the brake knob on the sliding-housing is always engaged if one does not have to move the sliding-housing along the pillar. This prevents undesired sinking of the drill. In addition, this must be engaged if one wants to move the lever to another side of the pillar or one wants to adjust the pillar at an angle.

Anchorage
The drill pillar can be anchored to the floor and/or wall using a quick-tensioner M12 in combination with a clamping plate. If the circumstances allow, a quick-acting clamp can be used as additional anchorage between the top of the pillar and the ceiling and/or wall.
Besides this method, an optional method is to also anchor the drill pillar using a vacuum base plate.

Setting the pillar in a square position
The adjusting bolts in the base plate can be used to position the base level with the floor or wall. It suffices if these bolts are hand-tight. By unscrewing the bolt (27) which is attached at the bottom of the pillar and then unscrewing the bolt (11) and the cross-bar (20) from the rear support, it is possible to position the pillar at the desired angle. The bolt (11) and the cross-bar (20) must thereafter be thoroughly tightened again.

Moving the drill stand
There is a handle top side (33) fitted to the base so that the complete stand with motor and drill can be moved.

Accessories
The following tools are delivered with the drill pillar:
- socket key SW19
- Allen key 6 mm

3 Using the equipment

In this chapter, the setting up procedure is first of all described. Thereafter a number of safety measures are discussed. It is important that these are read thoroughly and carefully before one uses the drill stand and the electric drill motor.

3.1 Setting up the drill stand

The setting up procedure using the impact-anchor is as follows:
- Place the impact-anchor M12 on the floor and/or wall.
- Screw the threaded end of the quick tensioner into the impact-anchor.
- Position the base and clamping plate over the thread end and tighten with the quick tensioner.
- Level the base using the four adjusting bolts.

The setting up procedure using the optional vacuum plate is as follows:
- Position the vacuum plate in the correct position.
- Start the vacuum pump and connect this to the vacuum plate.
- Position the stand onto the vacuum plate and tighten the base using the washer and the nut.
- Ensure that the vacuum plate is tightly secured to the concrete.
- Ensure that the meter on the vacuum pump indicates more than 1.0 Bar and remains showing this during use, especially when drilling horizontally.

Important!	Before the vacuum pump is positioned, one must thoroughly clean the concrete and remove any unevenness. Do not use the vacuum system for drilling into the ceiling.

In these setting up procedures, the use of a stamp-pole is optional. If possible:
- Position the stamp-pole on the top of the rig.
- Clamp the stamp-pole to the ceiling and/or wall by tightening the bolt.

3.2 Safety measures

ATTENTION:	When using the equipment, the following safety recommendations must be heeded. This is to avoid danger to one's personal health and to the surroundings.

Prevent an electric shock
The electromotor may only be used if the power supply system and equipment are fully earthed and connected to the mains electricity via a correctly functioning earth-leak circuit-breaker. If you have doubts, ask a qualified electrician to check this.

Prevent water near the electricity
Prevent leaks or drops from the water hose and prevent the water hose becoming detached. Remove discharge water safely using, for example, a water-extractor. Cables, plugs and electricity may not be exposed to water.

Keep the work area tidy
A disorderly work area can cause accidents. Do not allow unauthorised persons or animals to come into the work area. Possibly demarcate the work area with tape. During operation of the tool, a safe distance must be kept from the rotating parts. After use, store the equipment away in a safe and clean condition in a dry and well-locked area.

Take account of effects of the surroundings
Ensure that the lighting is good in the work area. Take note of the position of above-ground and underground cables and pipes in the work area. Do not use electrical equipment in damp places (rain) or near inflammable materials.

Use the correct equipment and do not overload this
Only use the equipment for the purposes for which it was designed. Do not force the tool. Do not subject the equipment to higher loads than indicated.

Wear suitable work clothes
Do not wear hanging clothing or jewellery, which can become entangled, in the moving parts. When working in the open air, rubber work gloves and shoes with treaded soles are recommended. If you have long hair, wear a hair-net.

Wear safety glasses and ear-protection
Wear safety glasses at all times. Also, wear a dust-mask if the work generates dust. It is recommended to wear ear protection at noise levels above 80 dB (A). Above 90 dB (A), ear protection is compulsory.

Ensure the workplace is safe and body-posture is correct
Safely attach the tools and work pieces so that they cannot become loose. Before starting the equipment, check whether all spanners and other tools have been removed. Avoid abnormal body-postures and ensure that your balance is stable.

Always be vigilant
Always pay attention to the work, go about the work sensibly and do not use the equipment if one does not have one's full concentration. Ensure that you are always in a position to quickly switch off the motor.

Prevent accidental starting of the motor
Take the plug out of the wall socket and switch the contact off if the equipment is not in use, for example for maintenance or when replacing parts. Check that the motor is off before the mains electricity is connected.

Carefully maintain the tool
Keep the tool clean in order to work better and work safely. Follow the maintenance instructions carefully. Keep the handles dry and free of oil and grease.

Check the equipment for damage
Check that the function of the moving parts is in order:
- that they do not clamp
- that no parts are broken
- that all other conditions are in order which could affect the functioning of the equipment

Damaged parts must be replaced or repaired by a qualified expert.

Use of accessories and auxiliary equipment
Only use accessories and auxiliary equipment, which are mentioned in the catalogue. Injury can occur if other accessories and auxiliary equipment are used.

Extension cable / cable
Only use an undamaged extension cable, which is suitable for outside use and has adequate core diameter. Fully wind out a cable from a coil to avoid heat formation. Protect all cables against heat, oil and sharp objects.

Repair to electrical tools
Electrical tools must meet the relevant safety requirements. For that reason, repairs may only be undertaken by a qualified electrician.

4 Maintenance

In general, it can be stated that regular maintenance (checking, cleaning and lubricating) has a positive effect on the safety and lifetime of the equipment. Ensure that the locking pin and the pump pin always function correctly. If not, they must be replaced immediately.

Maintenance to the stand
Clean and lubricate the toothed rack and the adjusting bolts on a weekly basis. Spraying the pillar and sliding strips with teflon spray is recommended. This prevents dirt becoming engrained onto the equipment.

5 Guarantee

The core drill stand “Profi-Midi” has a guarantee period of 3 months from the date of delivery. The guarantee means that within this period solely material and manufacturing flaws, after assessment by Diacom BV, will be repaired free of charge. This guarantee is void if:

- the stand has been overloaded,
- the stand has been used for purposes for which it was not designed,
- the maintenance has been inadequately carried out,
- the information in the handbook has not been correctly followed,
- the stand has been used by unauthorised persons,
- the stand has been repaired with non-original parts.

6 Technical specifications

In this chapter, the technical specifications of the Profi-Midi are described.

Model	Profi-Midi
Maximum drill diameter	200 mm
Total height	1070 mm
Size of standard base plate	24 x 34 cm
Total useful stroke	60 cm (drill motor dependent)
Weight	14 kg